

WHAT IS CLAIMED IS:

1. A process for treating a gas containing fluorine-containing compounds and CO which comprises contacting the above described gas with O₂ and H₂O at a temperature of 850°C or higher to oxidize the CO to CO₂; and then contacting the gas with γ-alumina at a temperature of 600-900°C to decompose the fluorine-containing compounds.
2. The process of claim 1, wherein the γ-alumina has a crystal structure which exhibits diffraction lines having an intensity of 100 or more at five angles of 33° ± 1°, 37° ± 1°, 40° ± 1°, 46° ± 1° and 67° ± 1° of the angles of diffraction 2θ measured by an X-ray diffraction apparatus.
3. An apparatus for treating a gas containing fluorine-containing compounds and CO which comprises a heat oxidation vessel having a hollow inside enabling the passage of the above described gas therethrough, a heating means capable of heating the temperature of the gas in the hollow inside to 850°C or higher, a gas inlet, an O₂ inlet and H₂O inlet; and a catalytic reaction vessel which is under fluid-communicating condition with the heat oxidation vessel and has been filled with γ-alumina.
4. The apparatus of claim 3, wherein the catalytic reaction vessel further has a heating means capable of heating the γ-alumina to 600 to 900°C.
5. The apparatus of claim 3, wherein the γ-alumina has a crystal structure which exhibits diffraction lines having an intensity of 100 or more at five angles of 33° ± 1°, 37° ± 1°, 40° ± 1°, 46° ± 1° and 67° ± 1° of the angles of diffraction 2θ measured by an X-ray diffraction apparatus.
6. The apparatus of claim 3, wherein the heat oxidation vessel further has a contact auxiliary means for enhancing the contact efficiency of the CO in the gas with O₂ and H₂O.
7. The apparatus of claim 4, wherein the heat oxidation vessel further has a contact auxiliary means for enhancing the contact efficiency of the CO in the gas with O₂ and H₂O.
8. The apparatus of claim 5, wherein the heat oxidation vessel further has a contact auxiliary means for enhancing

the contact efficiency of the CO in the gas with O₂ and H₂O.

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